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| APPLICATION NO.                                  | FILI    | NG DATE    | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.    | CONFIRMATION NO. |  |
|--|---------|------------|----------------------|------------------------|------------------|--|
| 09/625,777                                       | 07      | /26/2000   | Tao Chen             | PA000330               | 7872             |  |
| 23696  | 7590    | 11/19/2003 |                      | • EXAMINER             |                  |  |
| Qualcomm Incorporated                            |         |            |                      | ZIMMERMAN, BRIAN A     |                  |  |
| Patents Depa                                     | artment |            |                      | ART UNIT               | PAPER NUMBER     |  |
| 5775 Morehouse Drive<br>San Diego, CA 92121-1714 |         |            |                      | 2635                   | 11               |  |
|  |         |            |                      | DATE MAILED: 11/19/200 | 3 T              |  |

Please find below and/or attached an Office communication concerning this application or proceeding.

|  |   | <u></u> . ( 10  | ł |
|--|---|---|---|
|  | Application No.   | Applicant(s)  | 1 |
|  | 09/625,777  | CHEN ET AL.   |   |
| Office Action Summary  | Examiner  | Art Unit  |   |
|  | Brian A Zimmerman   | 2635  |   |
| The MAILING DATE of this communication ap<br>Period for Reply  | ppears on the cover sheet wi  | th the correspondence address   |   |
| A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a replaced in the second of the s | .136(a). In no event, however, may a roply within the statutory minimum of thirt<br>I will apply and will expire SIX (6) MON<br>te, cause the application to become AB  | eply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).  |   |
| 1) Responsive to communication(s) filed on 20 A  | <u>August 2003</u> .  |   |   |
| 2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This   | s action is non-final.  |   |   |
| 3) Since this application is in condition for allows<br>closed in accordance with the practice under   |   |   |   |
| Disposition of Claims  |   |   |   |
| 4)  Claim(s) 12-14 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed. 6)  Claim(s) 12-14 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/   | awn from consideration.   |   |   |
| Application Papers   |   |   |   |
| 9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomposition and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct solution. The oath or declaration is objected to by the Epriority under 35 U.S.C. §§ 119 and 120   | cepted or b) objected to be drawing(s) be held in abeyant of the drawing(s) the drawing(s)  | ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).   |   |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domessince a specific reference was included in the first sentence of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest reference was included in the first sentence of the certified copies of the priority document * See the  | nts have been received. Ints have been received in A control documents have been au (PCT Rule 17.2(a)). It of the certified copies not tic priority under 35 U.S.C. rest sentence of the specification has been autopiority under 35 U.S.C. | pplication No received in this National Stage received. § 119(e) (to a provisional application) ation or in an Application Data Sheet. een received. §§ 120 and/or 121 since a specific |   |
| Attachment(s)  |   |   |   |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)  | 5) Notice of Ir   | ummary (PTO-413) Paper No(s)<br>formal Patent Application (PTO-152)   |   |

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## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

1. Claims 12-14 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Support for each transmitter transmitting the same Quick Paging signal as argued by the applicant, could not be found in the specification as originally filed.

## Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bruckert (5920549), Ghosh (6018667), Willey (6138034) and Tiedemann (6216004).

Bruckert shows searching a plurality of pilot channels associated with a plurality of base stations to choose the "best" base station(s). Then the paging channels from the best base stations are further used to set up a call. Bruckert

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differs from the claimed invention in that it does not show the paging channels (from the plurality of base stations) in substantially overlapping time slots. See col. 4 lines 49-57. Bruckert shows soft combining the best base station signals into a composite received signal (see col. 8 lines 33-45) and making (decoding) decisions based upon the composite signal.

In an analogous art, Ghosh shows the advantages of having neighboring base stations synchronized to each other. Synchronized base stations imply that the paging channels substantially overlap. This decreases acquisition time. See col. 2 lines 10-22.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have synchronized the paging channels of adjacent base stations in Bruckert since Ghosh shows this reduces acquisition time.

In an analogous art, Willey teaches the use of a quick paging channel which reduces idle handoffs. See col. 1 lines 25-35. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have used a quick paging channel in the above modified system since such would decrease idle handoffs.

In an analogous art, Tiedemann shows a system that uses soft handoff on common paging channels. This permits the receiver to receive the same "common" channel messages from a plurality of base stations during the transition or handoff time. Soft handoffs provide improved signal quality at the edges of cell coverage. Therefore, it would have been obvious to have used the

soft handoff common channel scheme offered by Tiedemann in order to improve signal quality at the edge of cell coverage.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian A Zimmerman whose telephone number is 703-305-4796. The examiner can normally be reached on Off every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Horabik can be reached on 703-305-4704. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4700.

Brian A Zimmerman Primary Examiner

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BAZ